

REMARKS

Claims 3, 6, 15, 28 and 31 have been cancelled. Claims 1, 4, 7, 16, 17, 19 and 26 have been amended. Claims 1, 2, 4, 5, 7-14, 16-27, 29, 30 and 32-50 remain pending in the application. Reconsideration is respectfully requested in light of the following remarks.

Information Disclosure Statements:

The Office Action states that the previously submitted information disclosure statements have not been fully considered due to the voluminous quantity of material referenced. This is not a proper reason for the Examiner to not fully consider the references. According to M.P.E.P. § 609, Examiners must consider all citations submitted in conformance with the rules. The previously submitted information disclosure statements are in complete compliance with 37 CFR §§ 1.97 and 1.98 and with M.P.E.P. § 609. Therefore, the Examiner must fully and completely consider all citations.

The Examiner also states that Applicants should provided "relevant pages of the publication[s]". This quote comes from 37 CFR § 1.98(b)(5). Subparagraph (5) of § 1.98(b) refers only to non-patent publications. The requirements for patents and patent applications are listed in subparagraphs (1) - (4) of § 1.98(b). In regard to the cited non-patent publications, relevant pages are listed on the forms PTO-1449 already provided.

The Examiner also states that Applicants should point out the portion of each reference as it relates to respective claim limitations. However, statements of relevancy are required only for information not in the English language. Since all of the references submitted by Applicants are in the English language, no statements of relevancy are required under 37 CFR § 1.98.

The Examiner also states that none of the referenced documents are in the Application file. However, as evidenced by the return receipt postcards included herewith, copies of each reference have already been received by the United States Patent and Trademark Office for this application. Since considerable expense is involved in reproducing and resubmitting the references, Applicants suggest that the Examiner make every effort to locate the references within the USPTO. As noted, the USPTO has already acknowledged receipt of all the references.

Since the information disclosure statements were submitted in compliance with 37 CFR §§ 1.97 and 1.98, the Examiner must fully consider the listed references and return copies of the signed and initialed Forms PTO-1449 from each statement. Copies of the previously submitted Forms PTO-1449 are included herewith for the Examiner's convenience.

Form PTO-892

Applicants note that Examiner did not include a Form PTO-892 listing Rosenberg et al. (U.S. Patent 6,446,108). Applicants request that the Examiner please provide this form.

Section 102(b) Rejection:

The Office Action rejected claims 1-50 under 35 U.S.C. § 102(b) as being anticipated by Rosenberg et al. (hereinafter "Rosenberg") (U.S. Patent 6,446,108). As set forth in more detail below, Applicant respectfully traverses the rejection as to the currently pending claims.

Rosenberg does not teach a client accessing a space service according to a schema for the space service, wherein the space service is configured to provide functions to manage or access the one or more service advertisements in the space, wherein the functions of the space service are invoked according to the schema for the space service

which specifies one or more messages for invoking functions of the space service, and wherein the schema specifies messages usable to read advertisements from the space and publish advertisements in the space, as recited in claims 1 and 26. The Service Broker and Directory Agent in Rosenberg are not space services accessed according to a schema that specifies messages to invoke functions of the space service including messages usable to read advertisements from the space and publish advertisements in the space. Instead, Rosenberg only teaches that service providers multicast advertisements to multicast addresses listened to by service brokers (Rosenberg -- col. 3, lines 27-30). Rosenberg teaches that the service providers "do not need to know the actual addresses of brokers." (Rosenberg -- col. 4, lines 35-36). Rosenberg does not teach any schema for its service broker that specifies messages to invoke functions of the service broker including messages usable to read advertisements from the service broker and publish advertisements in the service broker.

Also, Rosenberg teaches that the service broker accepts service requests from clients. However, Rosenberg does not teach that the service request is a message specified by a schema that specifies messages to invoke functions of the space service including messages usable to read advertisements from the space and publish advertisements in the space. Rosenberg does not teach a schema that specifies these types of messages for a space service. There is no teaching in Rosenberg that the client service request is a message specified by such a schema.

Moreover, Rosenberg does not teach a schema that specifies messages usable to read advertisements from the space (Rosenberg -- col. 2, lines 38-40). Rosenberg only teaches that a service broker provides a server address to a client in response to a service query from the client. Rosenberg does not teach that an advertisement stored by a space service can be read by using a message specified by a schema for the space service.

The Examiner seems to equivocate the advertisement database in Rosenberg to a schema. However, a database is not a schema. Nor does the database in Rosenberg have anything to do with specifying messages to invoke functions of a space service.

In regard to claim 14, Rosenberg does not teach a service that is operable to send a message according to a schema for the space service to publish a service advertisement with the space service, wherein the service advertisement comprises information which is usable to access the first service; wherein the client is operable to communicate with the space service according to the message schema for the space service to access the space service and select the service advertisement from the space service. No such schema is taught by Rosenberg. Rosenberg's multicasts from service providers and client service requests are not taught to be messages according to a schema for the space service to publish a service advertisement with the space service, wherein the service advertisement comprises information which is usable to access the first service.

In regard to claim 39, Rosenberg does not teach storing a set of information in a space by sending at least one message specified in a schema for the space, wherein the schema specifies a plurality of messages usable to invoke functions of the space, wherein the set of information is expressed in a data representation language, and wherein the space is addressable at a Uniform Resource Identifier (URI). No such schema is described by Rosenberg. Also, the advertisements in Rosenberg are not taught to be expressed in a data representation language. The Examiner seems to equivocate the mention of attributes in Rosenberg to a data representation language. However, merely including attributes does not teach or even imply the use of a data representation language, such as XML. Nor does Rosenberg teach that the space is addressable at a Uniform Resource Identifier (URI). In fact, Rosenberg states that the service providers "do not need to know the actual addresses of brokers." (Rosenberg -- col. 4, lines 35-36). The URI mentioned at col. 5, lines 1-7, is not used for storing advertisements. Instead, it is the address at which clients may communicate with the broker.

Similar arguments apply for claims 43 and 47.

Applicants remind the Examiner that anticipation requires the presence in a single prior art reference disclosure of each and every element of the claimed invention,

arranged as in the claim. *Lindemann Maschinenfabrik GmbH v. American Hoist & Derrick Co.*, 221 USPQ 481, 485 (Fed. Cir. 1984). The identical invention must be shown in as complete detail as is contained in the claims. *Richardson v. Suzuki Motor Co.*, 9 USPQ2d 1913, 1920 (Fed. Cir. 1989). Applicants' independent claims are clearly NOT anticipated by Rosenberg.

Numerous ones of the dependent claims are further not anticipated by Rosenberg. However, no further comment is needed at this time in regard to the dependent claims since the independent claims have been shown to be distinguishable.

CONCLUSION

Applicants submit the application is in condition for allowance, and notice to that effect is requested.

If any extension of time (under 37 C.F.R. § 1.136) is necessary to prevent the above referenced application from becoming abandoned, Applicants hereby petition for such extension. If any fees are due, the Commissioner is authorized to charge said fees to Meyertons, Hood, Kivlin, Kowert & Goetzl, P.C. Deposit Account No. 501505/5181-67400/RCK.

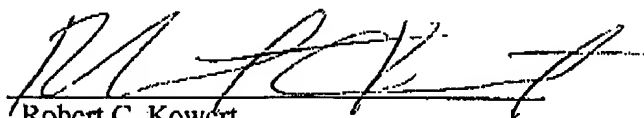
Also enclosed herewith are the following items:

- ☐ Return Receipt Postcard
- ☒ Copies of previously submitted Forms PTO-1449 and postcards showing receipt of references at USPTO
- ☐ Request for Approval of Drawing Changes
- ☐ Notice of Change of Address
- ☒ Marked-up Copy of Amended Claims
- ☐ Marked-up Copy of Amended Paragraphs

☐ Fee Authorization Form authorizing a deposit account debit in the amount of \$
for fees ().

☐ Other:

Respectfully submitted,



Robert C. Kowert

Reg. No. 39,255

ATTORNEY FOR APPLICANT(S)

Robert C. Kowert
P.O. Box 398
Austin, TX 78767-0398
Phone: (512) 853-8850

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Marked-Up Copy of Amended Claims:

1. (Twice Amended) A method comprising:

a client accessing a space service according to a schema for the space service, wherein the space service is operable to store one or more service advertisements in a space, wherein each of the service advertisements comprises information which is usable to access a corresponding service, and wherein the space service is configured to provide functions to manage or access the one or more service advertisements in the space, wherein the functions of the space service are invoked according to the schema for the space service which specifies one or more messages for invoking functions of the space service, and wherein the schema specifies messages usable to read advertisements from the space and publish advertisements in the space;

the client selecting one of the service advertisements from the space; and

the client using the information from the selected service advertisement to execute the corresponding service.

4. (Amended) The method of claim [3] 1,

wherein the schema is expressed in a data representation language.

7. (Amended) The method of claim [3] 1,

wherein the client accessing the space service comprises the client sending at least one of the messages specified in the schema to the space service.

16. (Amended) The system of claim [15] 14,

the client using the information from the selected service advertisement to execute
the corresponding service.

wherein the client is operable to access the space service by sending the one or more messages to the space service at a URI.

17. (Amended) The system of claim [15] 14,

wherein the schema is expressed in a data representation language.

19. (Amended) The system of claim [15] 14,

wherein the schema specifies messages usable to read advertisements from the space service and publish advertisements in the space service.

26. (Twice Amended) A carrier medium comprising program instructions which are computer-executable to implement:

a client accessing a space service according to a schema for the space service, wherein the space service is operable to store one or more service advertisements in a space, wherein each of the service advertisements comprises information which is usable to access a corresponding service, and wherein the space service is configured to provide functions to manage or access the one or more service advertisements in the space, wherein the functions of the space service are invoked according to the schema for the space service which specifies one or more messages for invoking functions of the space service, and wherein the schema specifies messages usable to read advertisements from the space and publish advertisements in the space;

the client selecting one of the service advertisements from the space; and